

or less yellow in colour; the arrangement of nervures much the same; palpi thicker, antennæ much more slender. Type *C. divisa*.

*CELERENA VULGARIS*, n. sp.

Allied to *C. perithea*, of Cramer, from Amboina, but with the transverse golden-yellow band of primaries twice as wide, and the black-brown border of secondaries only half as wide: expanse of wings 2 inches 4 lines.

This is evidently a very common species.

The above-named genus will include the following species:—*C. lerne*, Boisd.; *C. divisa*, Walker; *C. andamana*, Felder; *C. commutata*, Walker; *C. mutata*, Walker; *C. perithea*, Cramer; *C. proxima*, Spreta, and *connexa* of Walker; and *C. eucnemis* of Felder.

5. Contributions to a General History of the *Spongiadæ*.

By J. S. BOWERBANK, LL.D., F.R.S., &c.—Part VIII.

[Received November 8, 1876.]

(Plates LXXVIII.—LXXXI.)

The Sponges described in the present contribution to a general history of the Spongiadæ are rare and very remarkable species. Three of them are, to the best of my knowledge, unique specimens; and the fourth, *Chalina verticillata*, elucidates in a singularly striking manner the structure and history of a diluvial fossil sponge enveloped in flint, which has for a long period been a mystery to palæontologists.

*DESMACIDON PLUMOSA*, sp. nov. (Plate LXXVIII.)

Sponge elongately fan-shaped, pedicellate; pedicle long and stout, smooth, fan-shaped, expansion prominently hispid on both planes. Oscula simple, dispersed, minute, and numerous. Pores inconspicuous. Dermal membrane aspiculous. Skeleton reticulated, rete irregular; primary fibres stout and solid, radiating irregularly from the discal end of the pedicle in the same plane; secondary fibres radiating from the primary ones at nearly right angles to the planes of the sponge, short, slender, and delicately plumous. Spicula subfusiform-acerate.

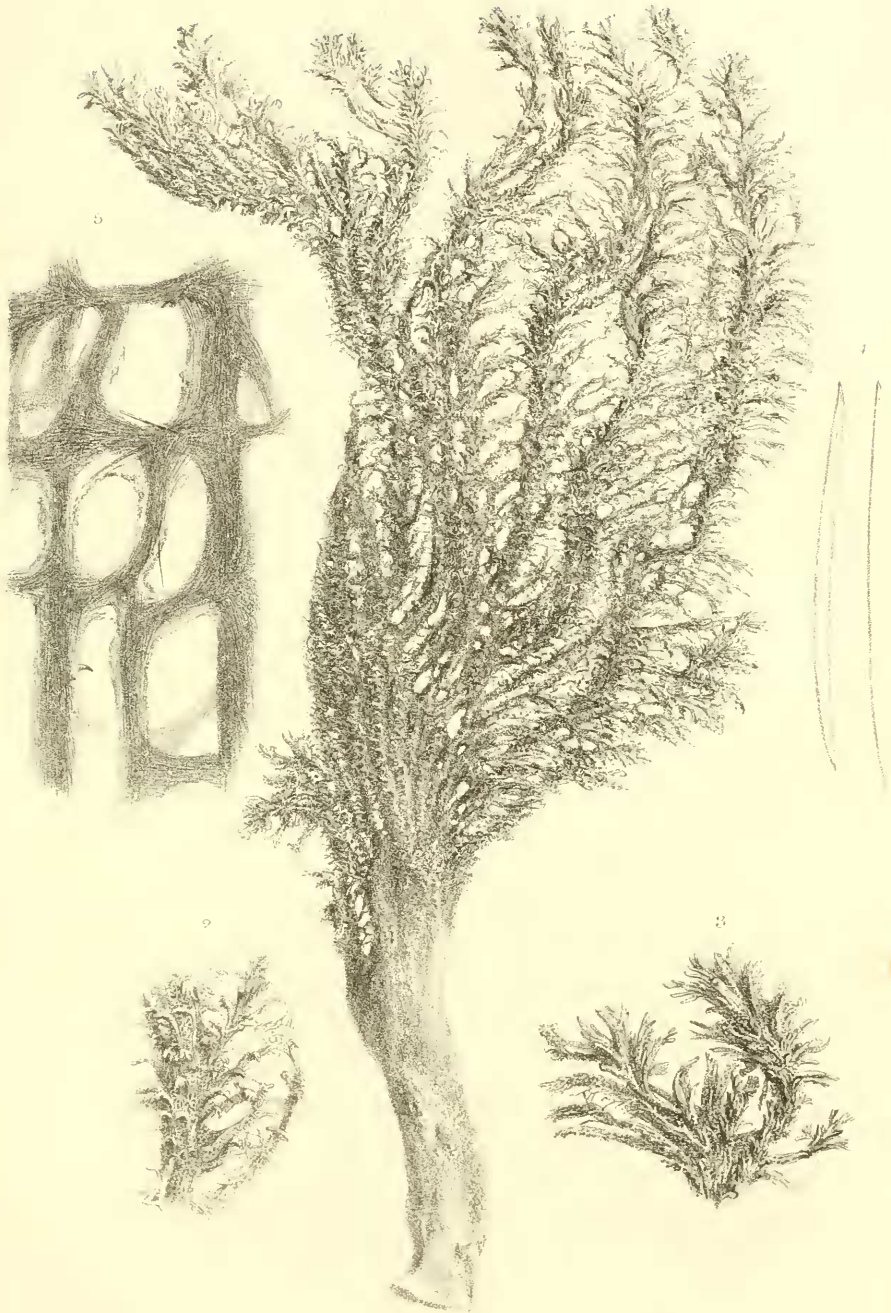
Colour, in the dried state, fawn-yellow.

*Hab.* Sharks' Bay, Western Australia.

Examined in the dried state.

I obtained this singular and interesting sponge among many others from a dealer in specimens of natural history, who stated that it was from Sharks' Bay, Western Australia. It is 15 inches in height, and about 5 inches broad at near the middle of the fan-shaped expansion. No portion of the basal attachment remains; and the pedicle in its present state slightly exceeds 4 inches in length. It is slightly

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Desmarestia plumosa

*Desmarestia plumosa*

W. West & Co. imp.





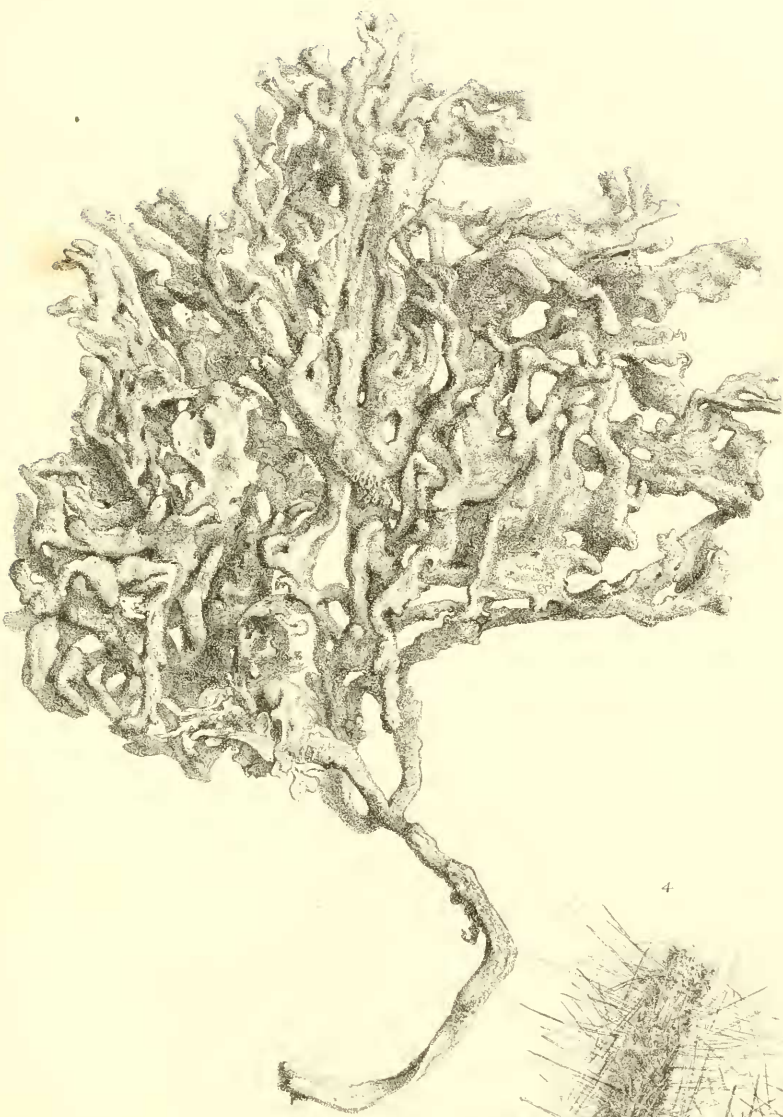
Durhi del.

Wheeler & Co. sc.

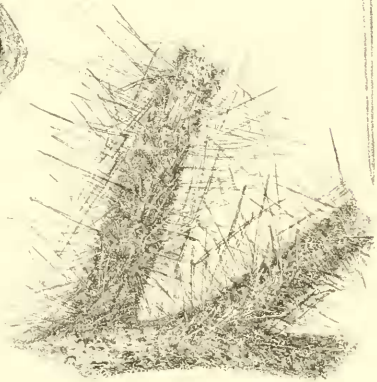
Chalma verticillata.



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4



Dimitreef del. et lith

W. West & Co. imp.

Ophlitospongia fucoides.



2

5

1



3

*Raphiodesma radiosa*